

Title: DIAGNOSING PREDISPOSITION TO FAT  
DEPOSITION AND ASSOCIATED CONDITIONS  
First Inventor: Gail Isabel Reid ADAM  
Docket No.: 524592003100  
Sheet 1 of 23

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1561	gggcgtggtg	gcacgtgcct	gtaatcccag	ctactcagag	gctgaggcac	agaatcact
1621	tgaacctggg	agacagagat	tgagtgagc	cgagattgtg	ccactgcact	ccagcctggg
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1861	ggagttcaag	accagcctgg	gcaacatagg	gagacgcctg	gtctccaaaa	atttttttga
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3481	accatgcctg	gctaatttht	tgthtttagt	agagacaggg	ttattccatg	ttggtcaggc
3541	tgggtctcgaa	ctctccacct	cagggtgatct	gccagcctca	gcctcccaaa	gtgctgggat
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FIGURE 1A

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3781 tggagcccta ttttgtcatt tgccaactgt gtgaccttgg gcaagttacc gcaactctct
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7081 aaggacttat attttttcaa gccataggat catttctcct gaagcatctt ggcgaagtca
7141 tccccacctg ttcctgagag tgggcagggt agggctgacc tattgctctg cacttactcc
7201 tatctcagct gtccctccca ctttccaggt gctgccagac acatgacaac tgctaYgacc
7261 aggccaagaa gctggacagc tgtaaatttc tgctggacaM Mccgtacacc cacacctatt

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FIGURE 1B

7321 *catactcRtg ctctggctcg gcaatcacct gtagcagtag gtttatccct tccttgacct*  
7381 *atgaattcta gttgggttctc agtaggccgg ggggaaataa tagtaacaac agccatgatt*  
7441 *tagtgттаат tttcttggtt ctgggcagtg tctcctttaa tcctcagaac aacactatgg*  
7501 *gataggtaca attatcctca cttaacagat aagaaaactg aggctcagaa ggctgagcta*  
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10801 *tagtaagcag cagagaagga atttgaactc ggcaagtcta acaacagaaa acacatgctg*  
10861 *aaccactgcc cttccctgcc tgaagtggta ggcttttagtt tgagccagac cttgcccccg*  
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FIGURE 1C

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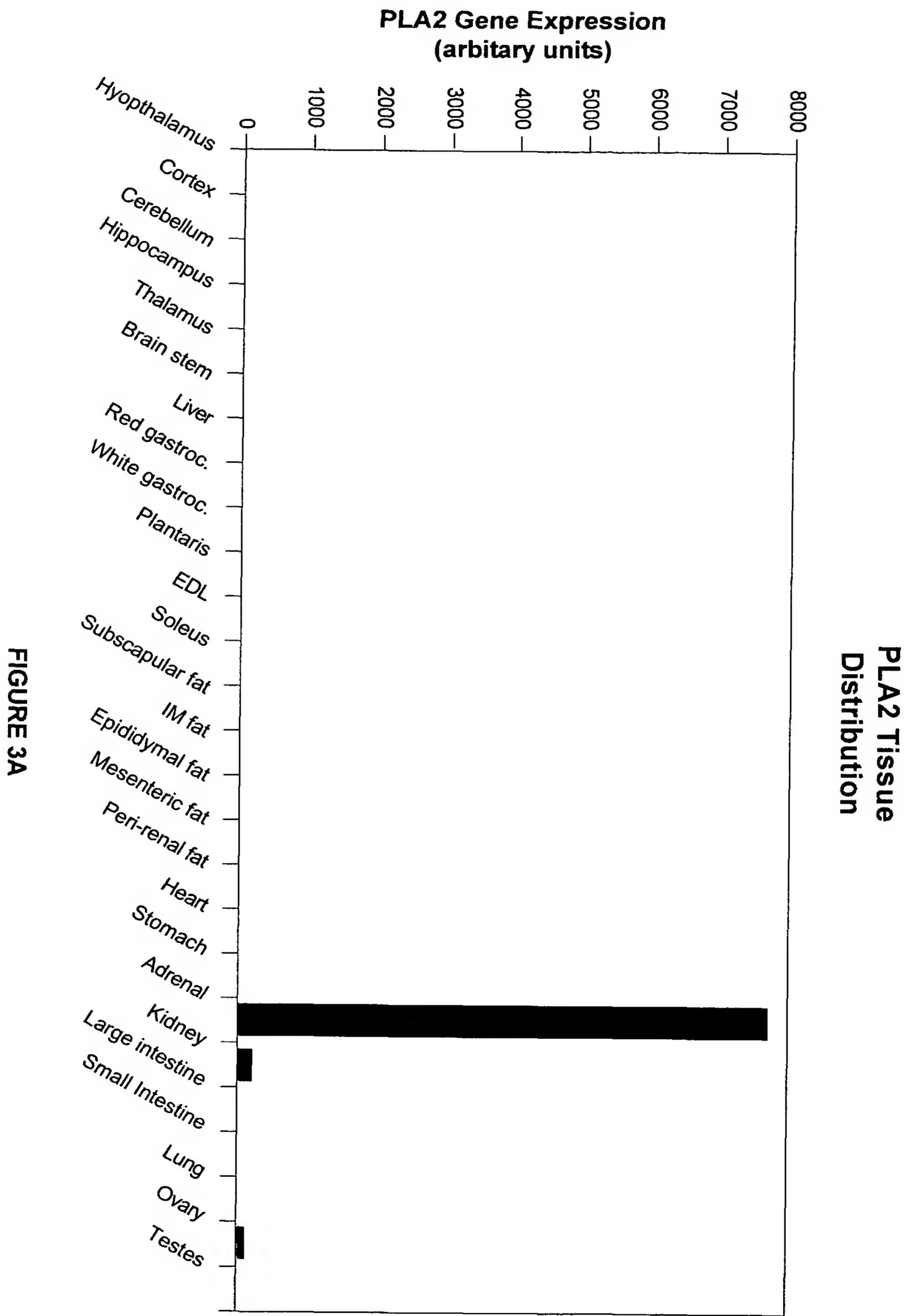
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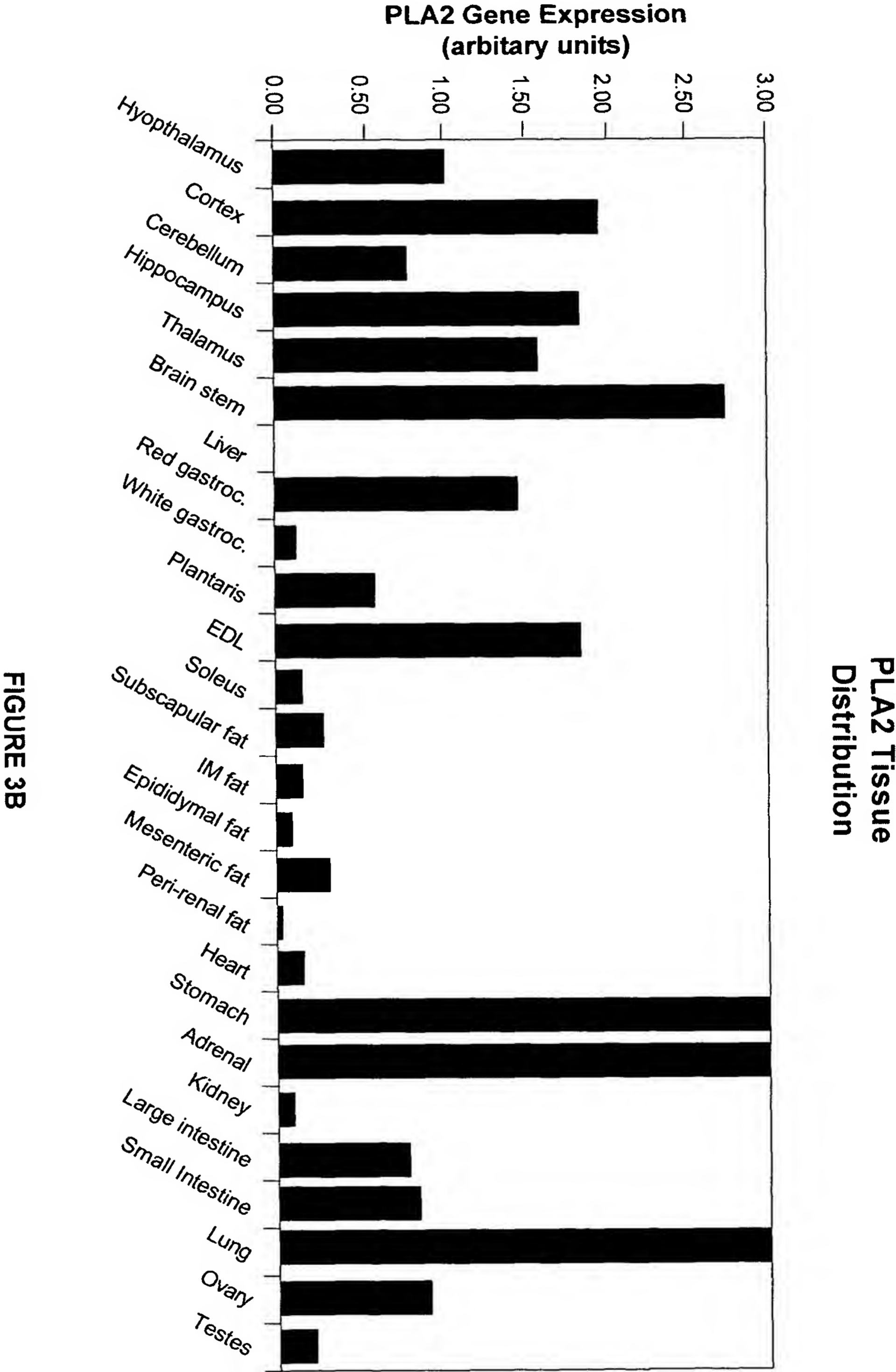
FIGURE 1D

Title: DIAGNOSING PREDISPOSITION TO FAT  
DEPOSITION AND ASSOCIATED CONDITIONS  
First Inventor: Gail Isabel Reid ADAM  
Docket No.: 524592003100  
Sheet 5 of 23

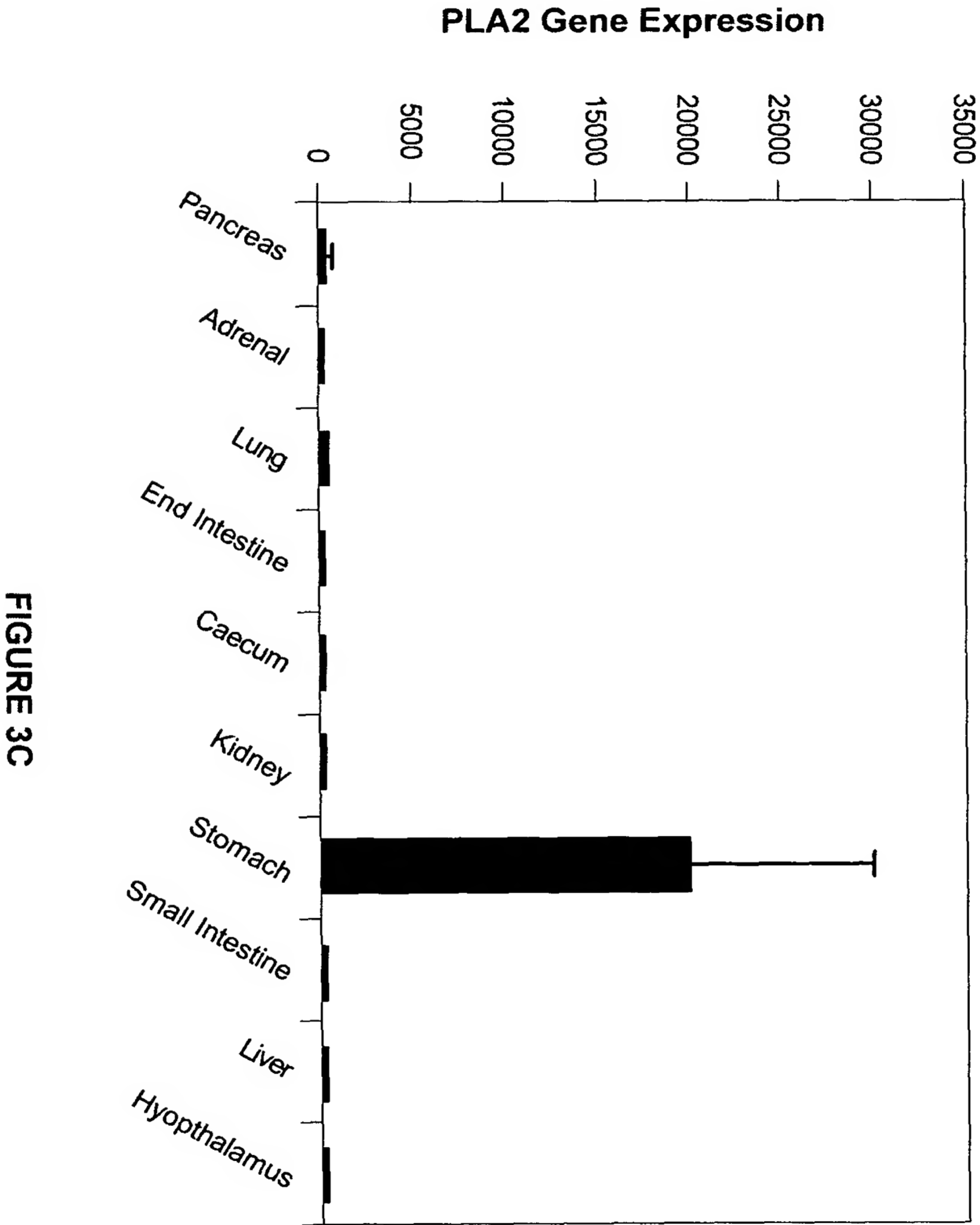
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DSCKFLLDNPHYTHYSSCSGSAITCSSKNKECEAFICNCDRNAAICFSKAPYNKAHKNL DTKKYCQS

**FIGURE 2**





PLA2 Gene Expression in Four, Lean, Healthy *Psammomys obesus* Animals



PLA2 Gene Expression in Four, Lean, Healthy *Psammomys obesus* Animals

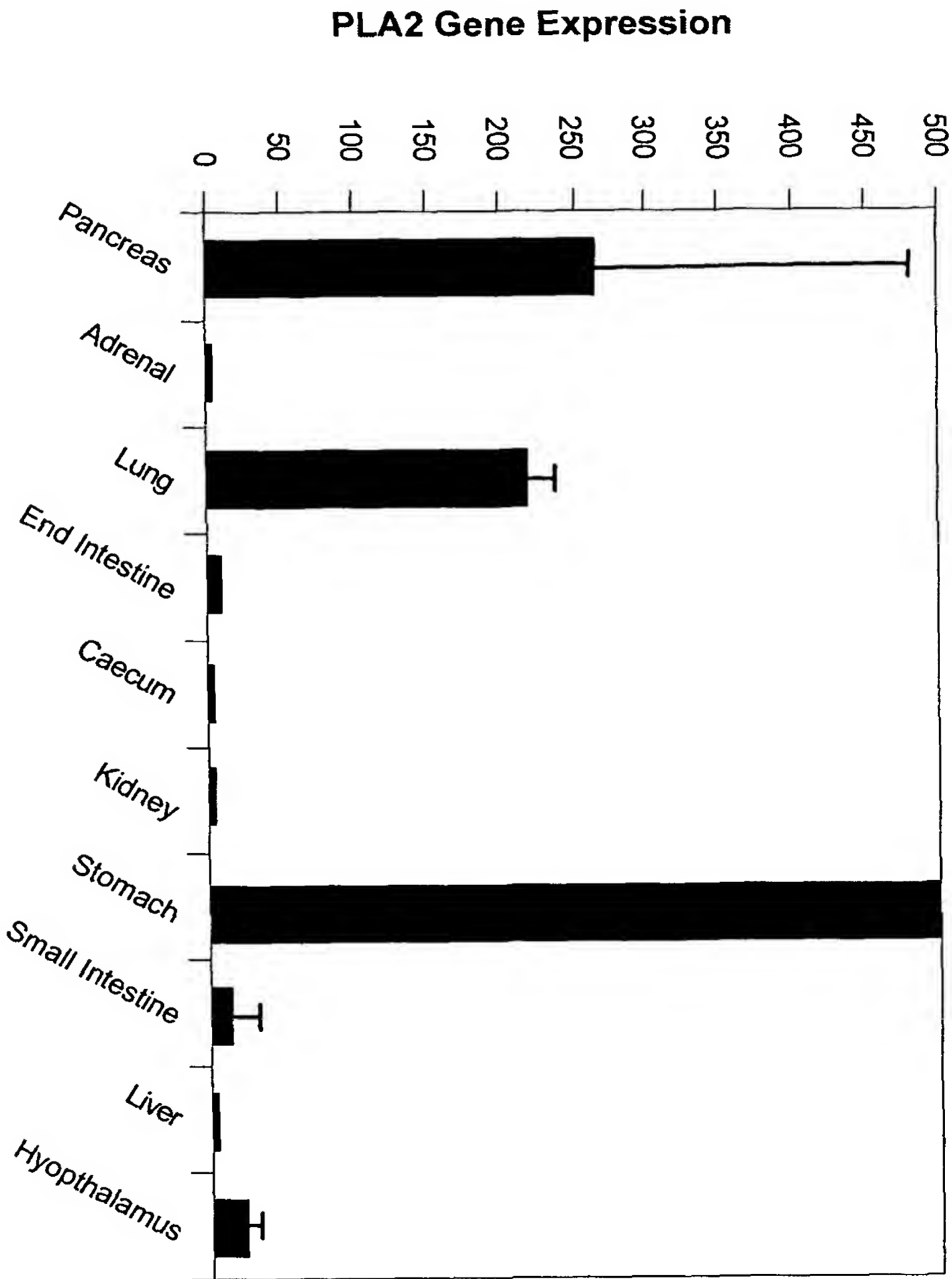
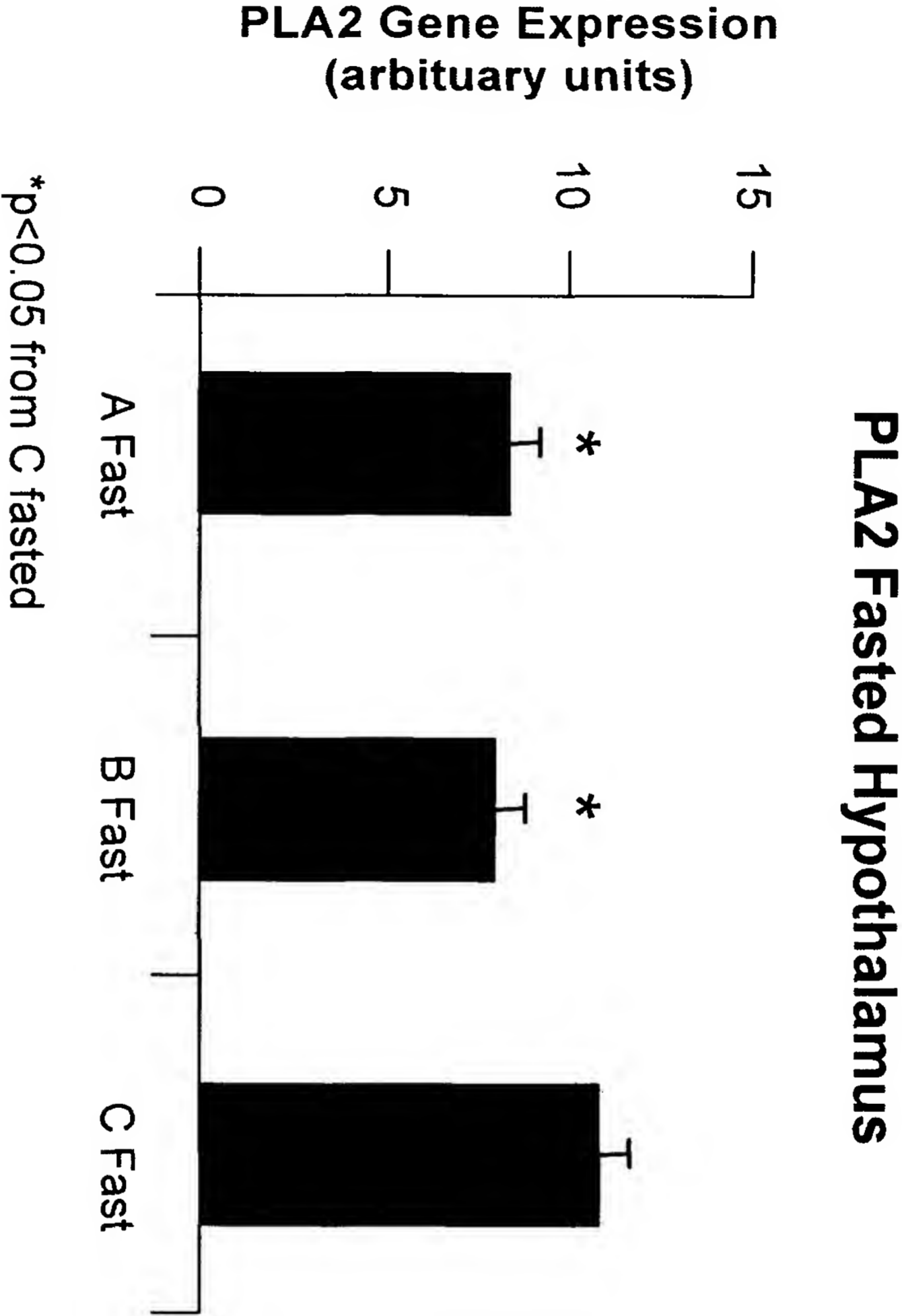


FIGURE 3D



**FIGURE 4A**

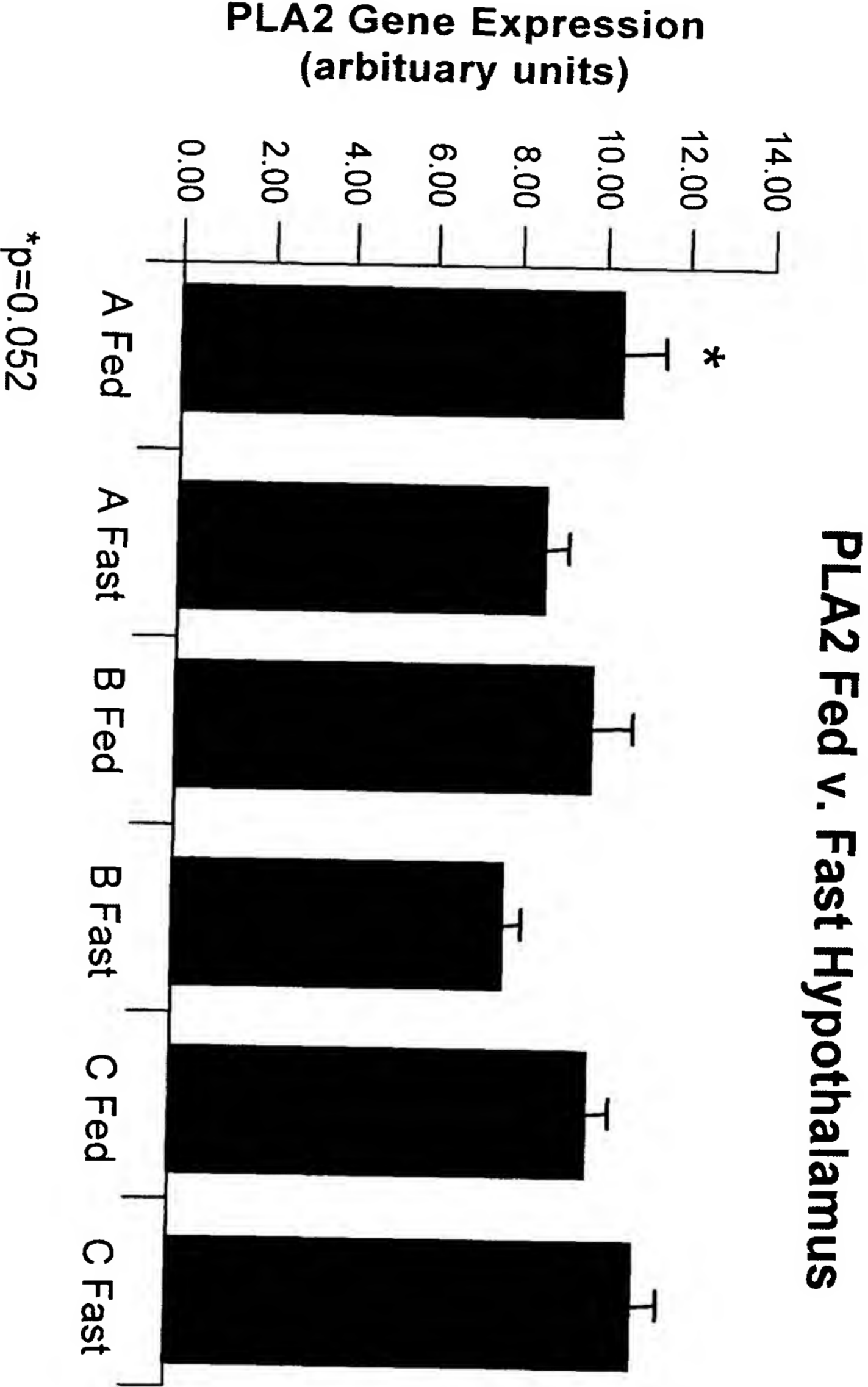


FIGURE 4B

PLA2 v BW (Fasted animals)

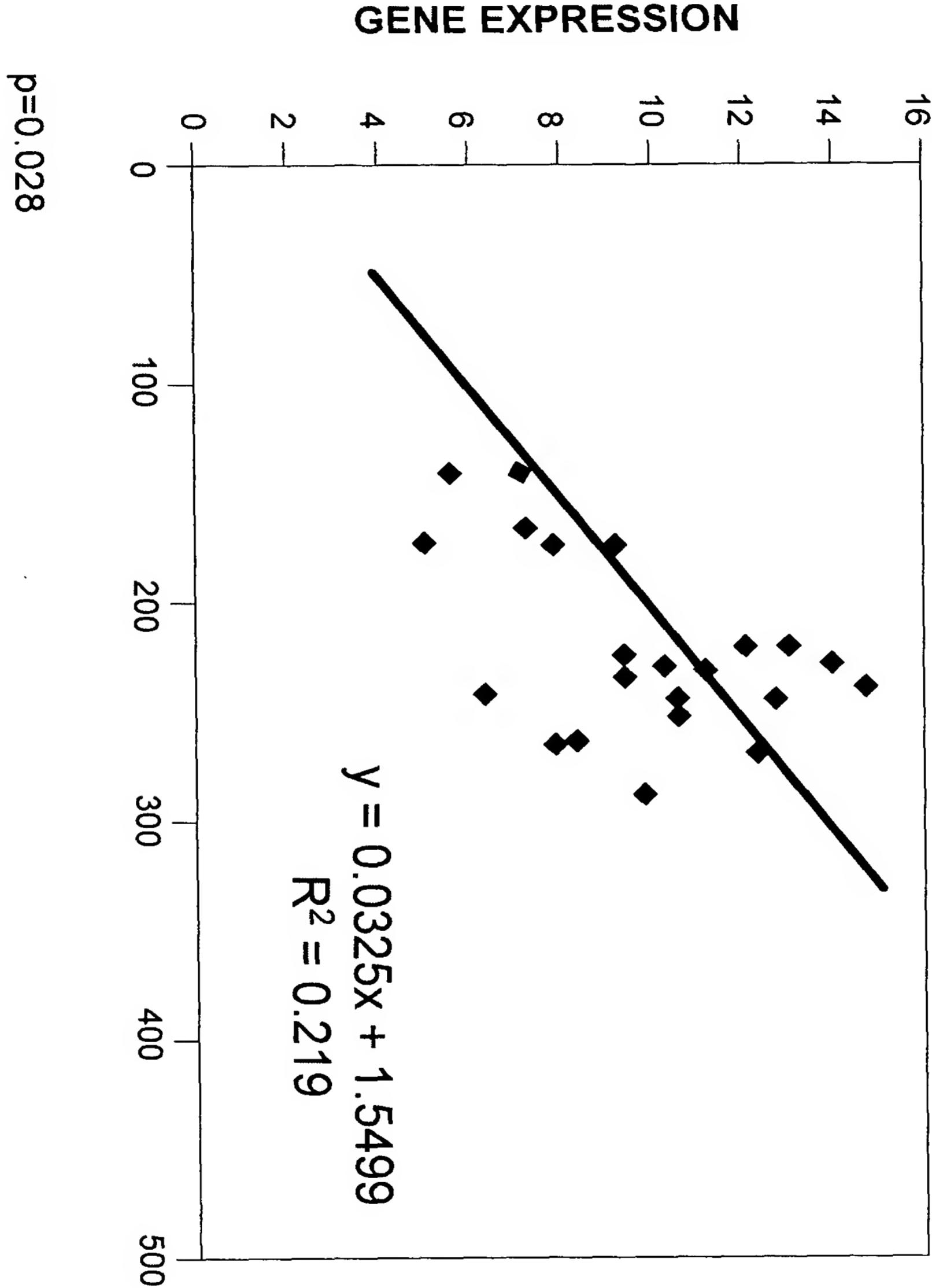


FIGURE 4C

PLA2 v Insulin (Fasted animals)

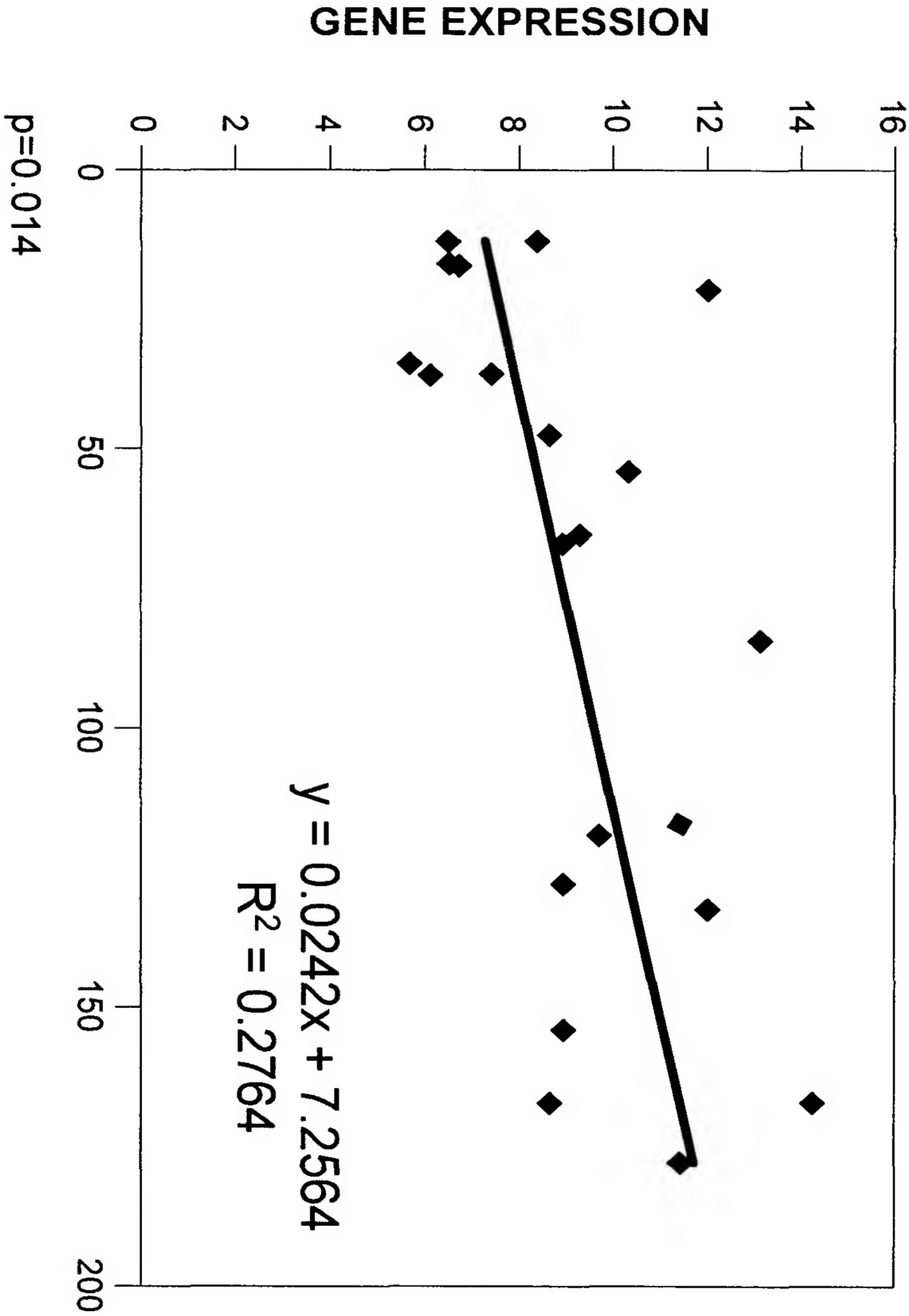
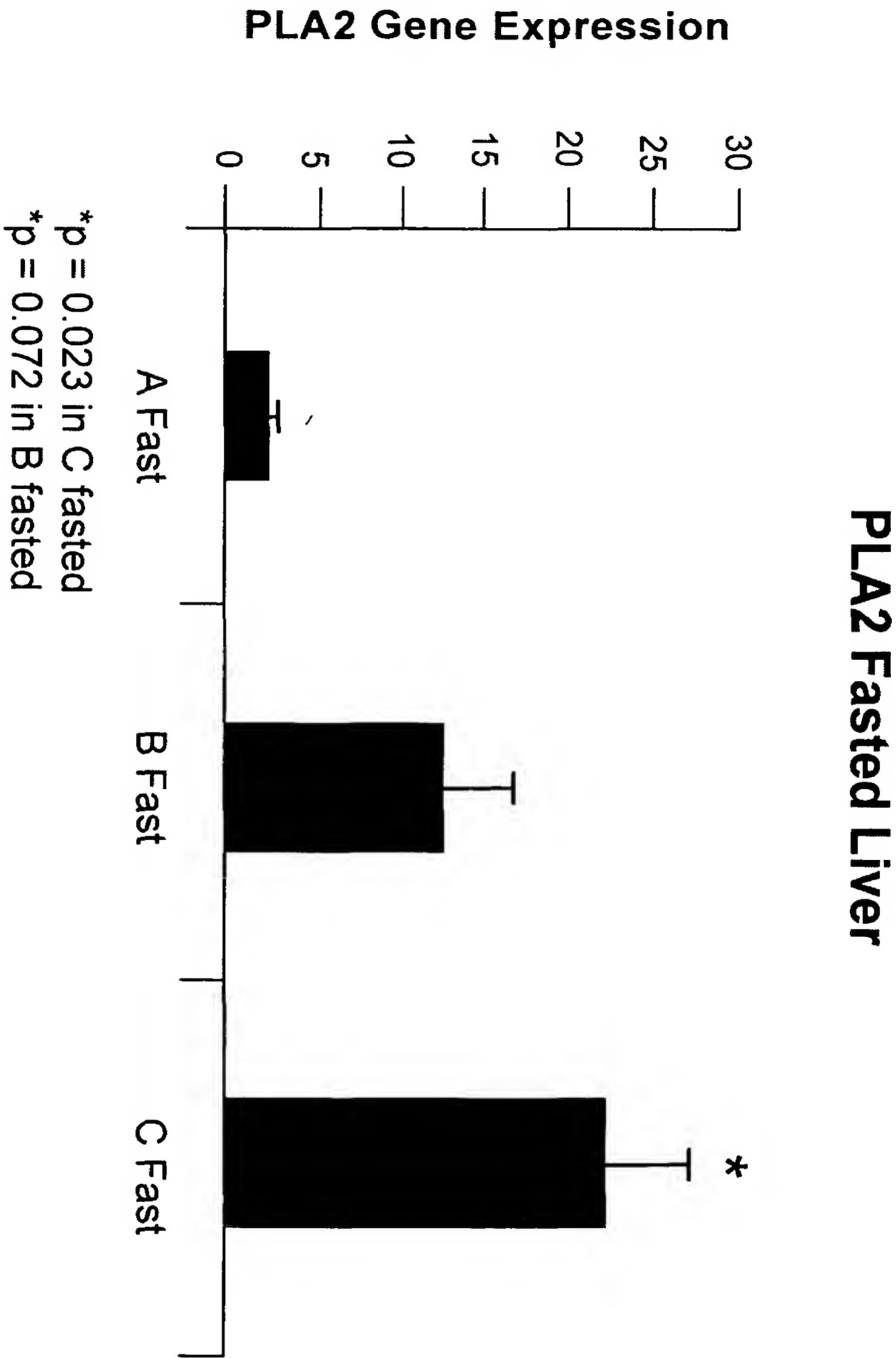
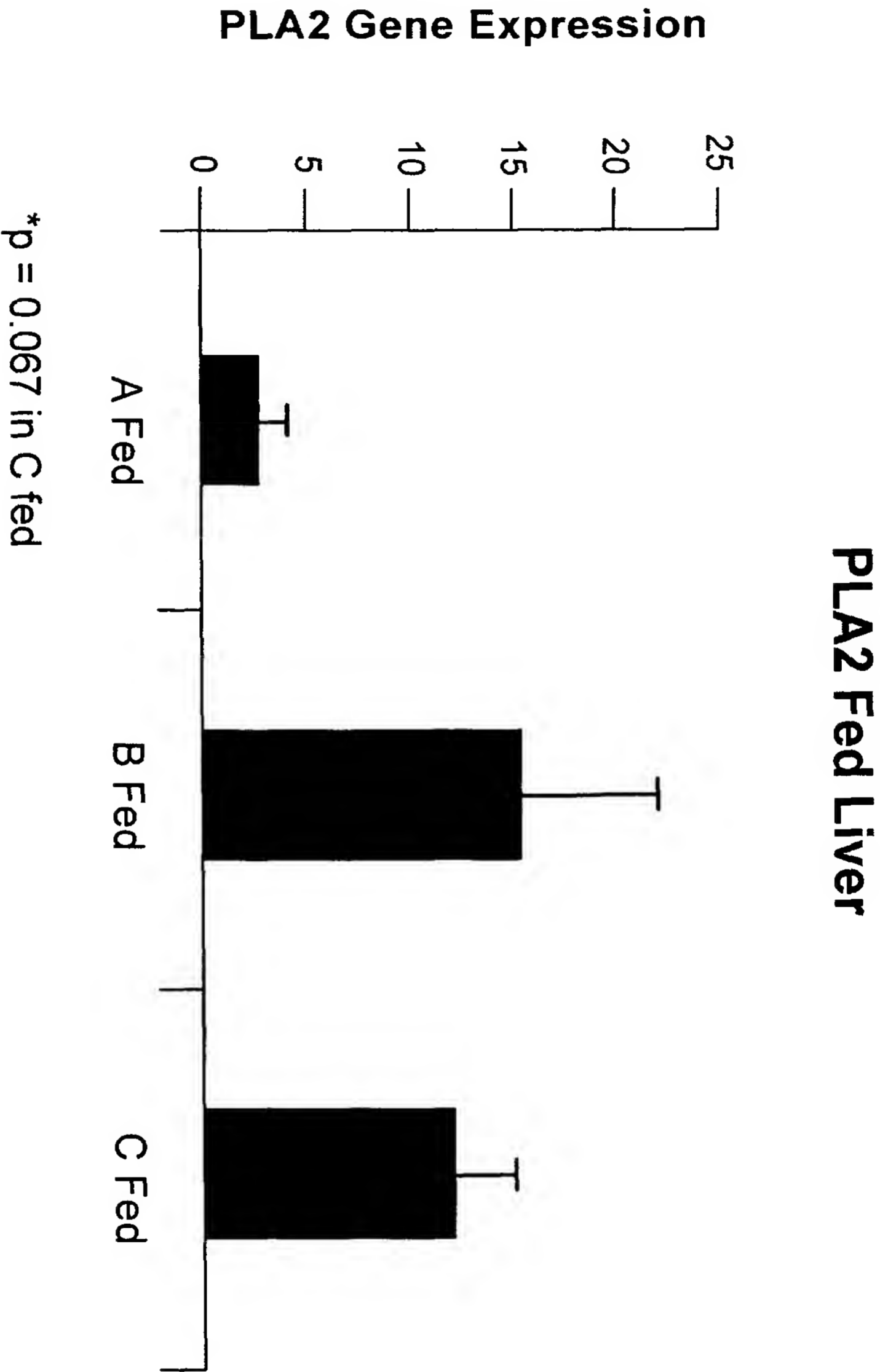


FIGURE 4D



**FIGURE 4E**



**FIGURE 4F**

PLA2 v Weight - Fasted animals

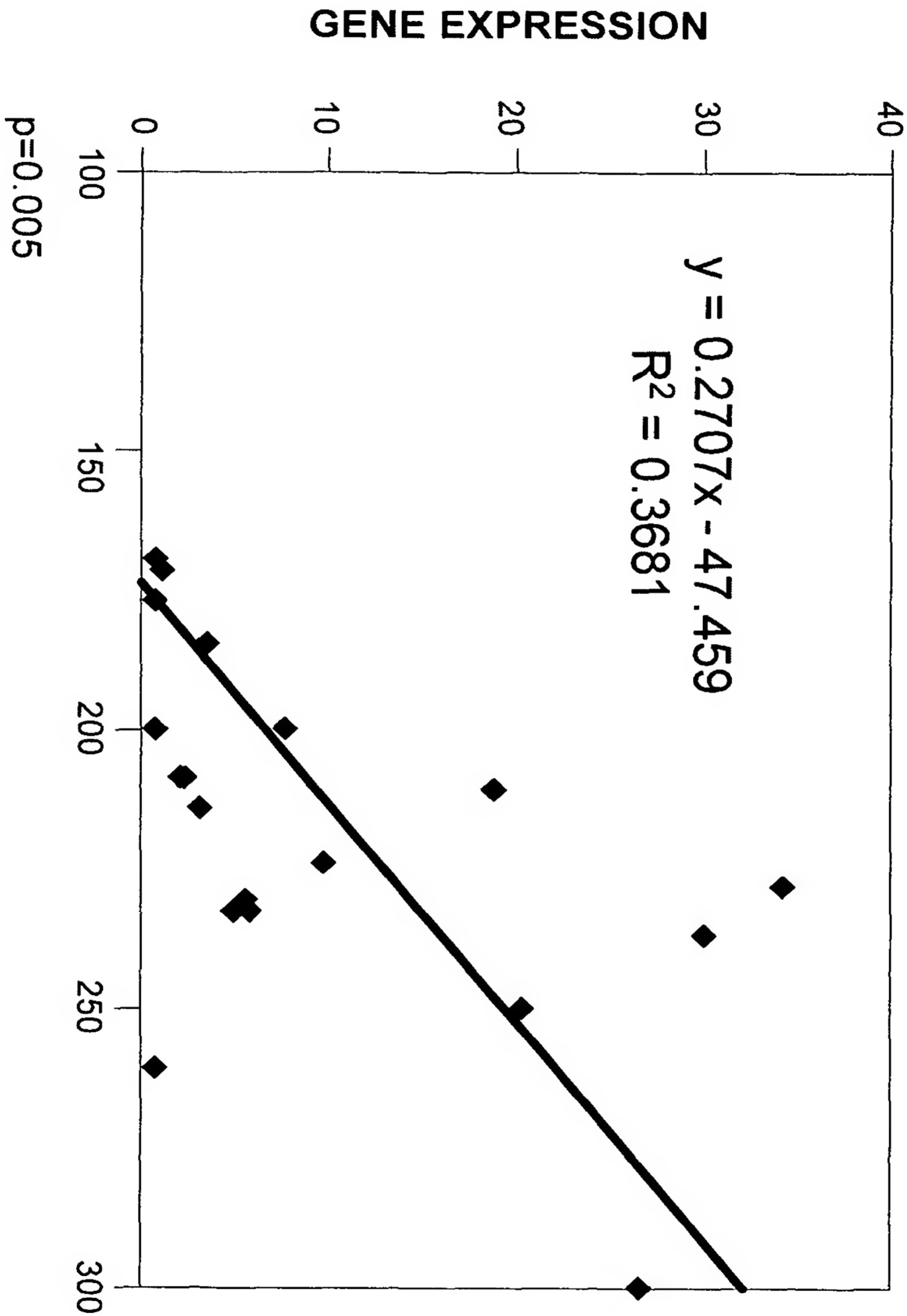


FIGURE 4G

PLA2 v Insulin Fasted Animals

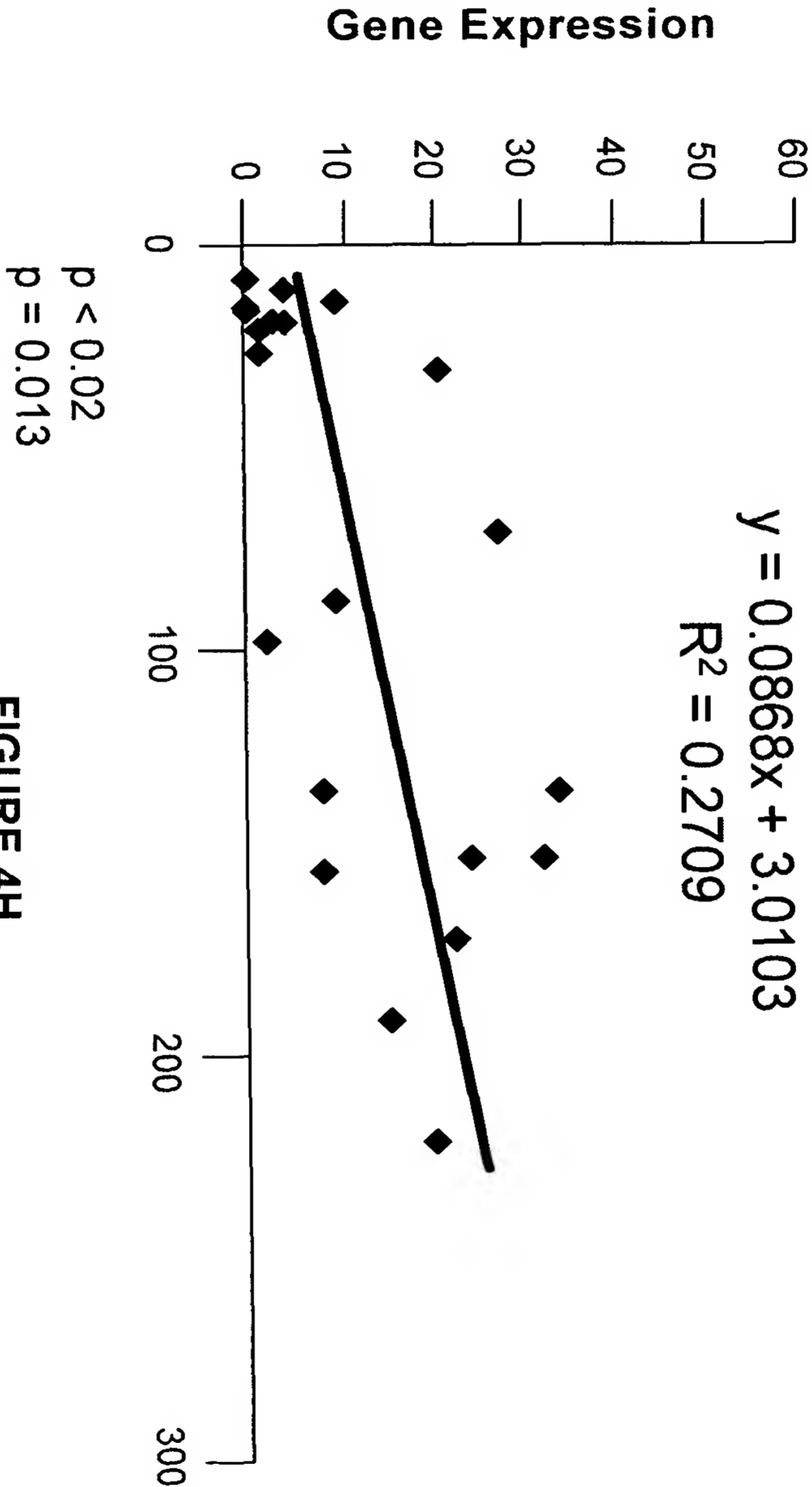


FIGURE 4H

PLA2 v Insulin Fasted Animals

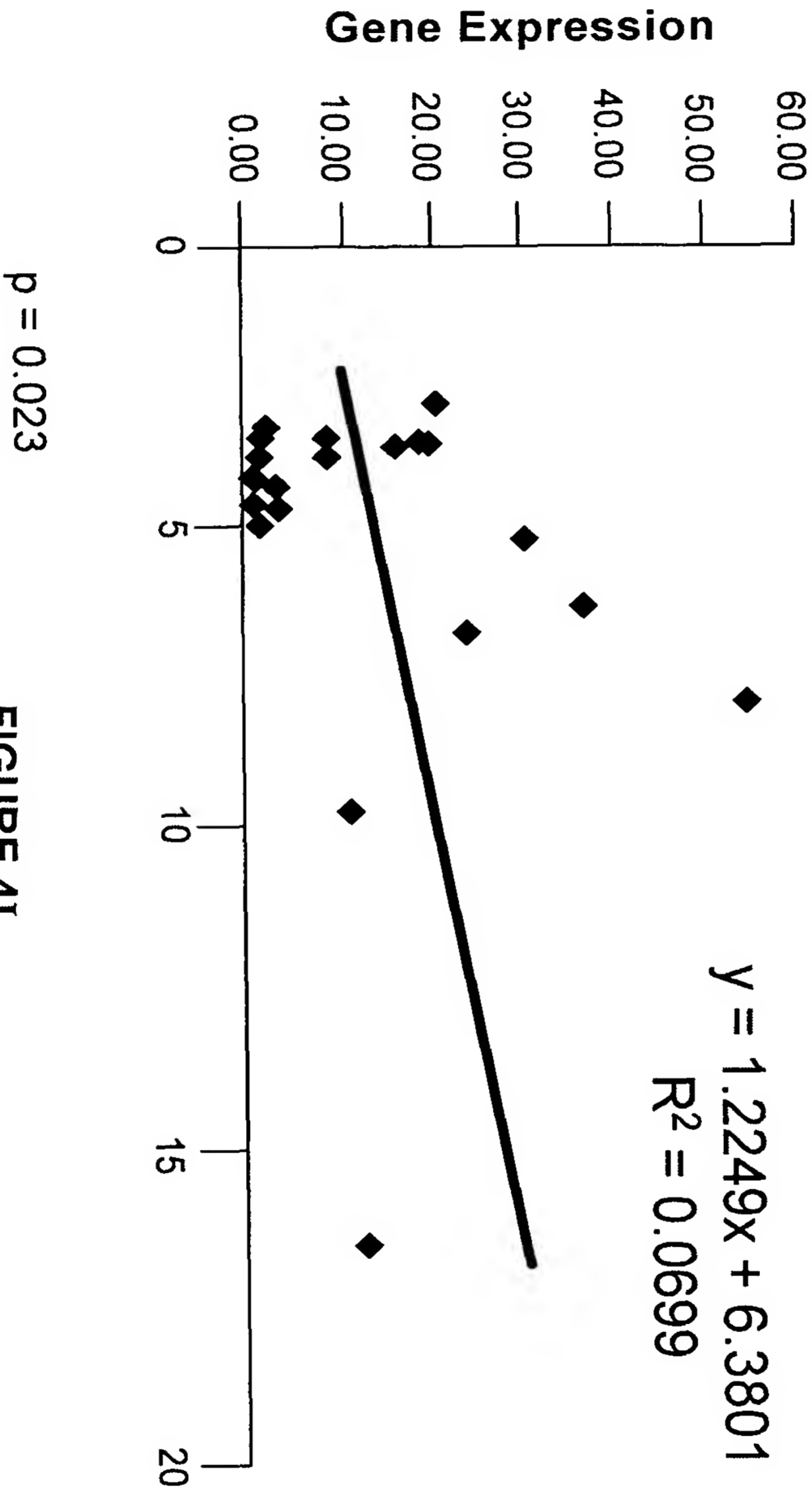


FIGURE 4I

PLA2 v Weight - Fed Animals

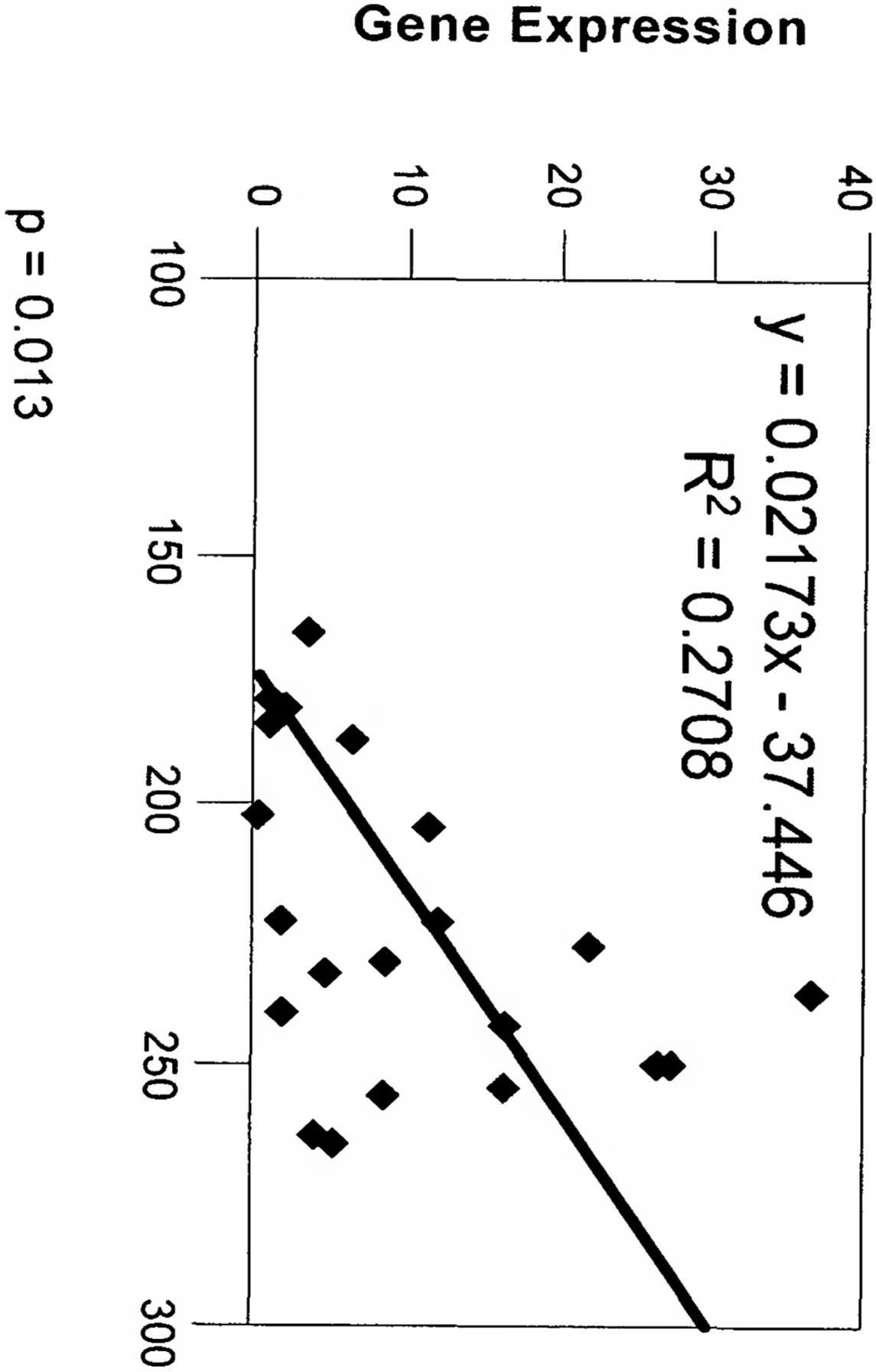
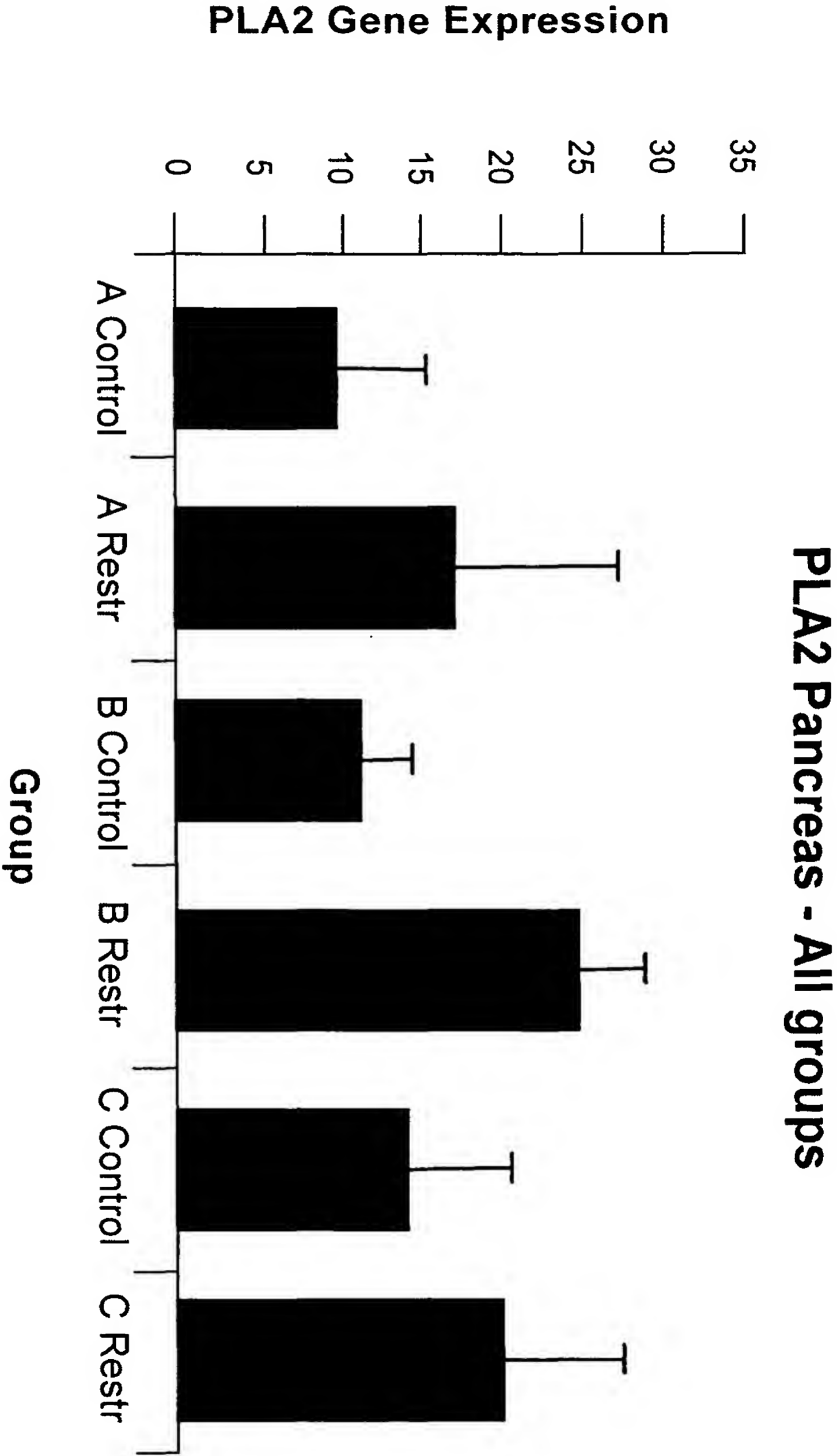


FIGURE 4J



**FIGURE 4K**

PLA2 Fed v. Fasted Scapular Fat

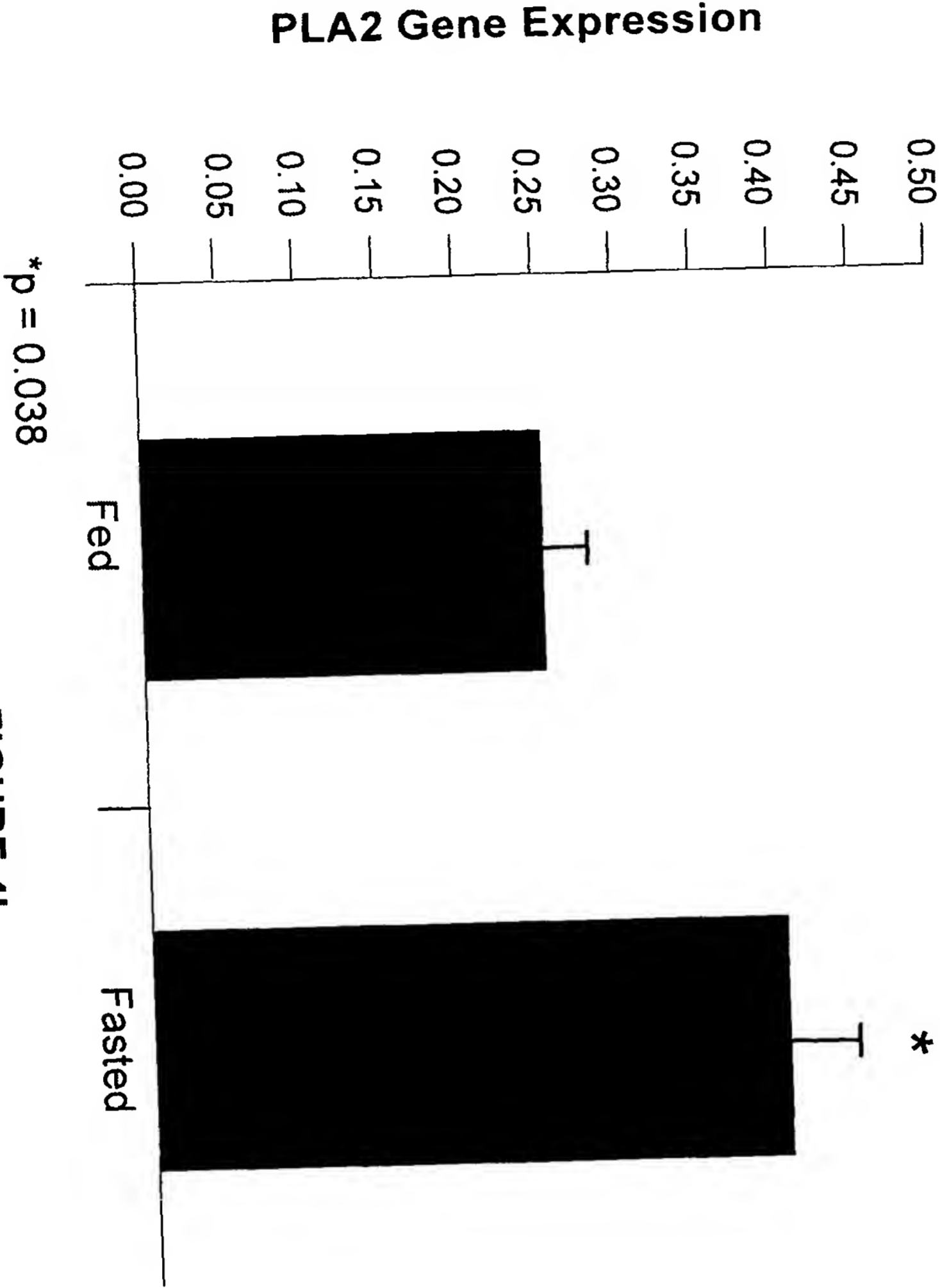


FIGURE 4L

Human	TGGTCATCTCAGTTTCTTTTCTCACCTTGACTGCAAGATGAAACTCCTTGTGCTAGCTGT	60
Mouse	-----CTCCCCTCACTCCTTCTGAAGATGAAACTCCTTCTGCTGGCTGC	44
Rat	-----CCCTCGCCAAGATGAAACTCCTTCTGCTGGCTGC	34
Psammomys	-----	
Human	GCTGCTCACAGTGGCCGCCGCCGACAGCGGCATCAGCCCTCGGGCCGTGTGGCAGTTCCG	120
Mouse	TCTGCTCACAGCAGGCGCTGCTGCACACAGCATCAGCCCTCGGGCTGTGTGGCAGTTCCG	104
Rat	TTTGCTCACAGCAGGCGTTACTGCACACAGCATCAGCACTCGGGCTGTGTGGCAGTTCCG	94
Psammomys	-----TGTTCCG	7
	*****	
Human	CAAAATGATCAAGTGCGTGATCCCGGGGAGTGACCCCTTCTTGAATACAACAACACTACGG	180
Mouse	CAATATGATCAAGTGACCATCCCCGGGAGTGATCCCTGAAGGATTACAACAACACTATGG	164
Rat	CAATATGATCAAGTGACCATCCCCGGGAGTGATCCCTGAGGGAGTACAACAACACTACGG	154
Psammomys	CAATATGATCAAGTGCGCCATCCCCGGAAGTAAGCCCTGAAGGAGTACAACAACACTACGG	67
	*** *****	
Human	CTGCTACTGTGGCTTGGGGGGCTCAGGCACCCCGTGGATGAACTGGACAAGTGCTGCCA	240
Mouse	CTGCTACTGTGGCTTGGGCGGCTGGGGCACCCAGTGGACGACTTAGACAGGTGCTGCCA	224
Rat	CTGCTACTGTGGCTTGGGCGGCTCAGGCACCCAGTGGACGACTTAGACAGGTGCTGCCA	214
Psammomys	CTGCTACTGCGGCCTGGGCGGCGCAGGCACCCAGTGGACGAATTAGACAGGTGCTGCCA	127
	*****	
Human	GACACATGACAACCTGCTATGACCAGGCCAAGAAGCTGGACAGCTGTAAATTTCTGCTGGA	300
Mouse	GACTCATGACCACTGCTACAGTCAGGCCAAGAAGCTGGAAAGCTGTAAATTCCTCATAGA	284
Rat	GACTCATGACCACTGCTACAATCAGGCCAAGAAGCTGGAAAGCTGTAAATTCCTCATCGA	274
Psammomys	GATCCATGACAATTGCTACACTAAGGCCAAGAGGCTGAAAAGCTGTAAATCCCTCCTGGA	187
	** *****	
Human	CAACCCGTACACCCACACCTATTCATACTCGTGCTCTGGCTCGGCAATCACCTGTAGCAG	360
Mouse	CAACCCCTACACCAACACTTACTCCTACTCATGCTCCGGGAGCGAGATCACCTGCAGCGC	344
Rat	CAACCCCTACACCAACACGTACTCATACAAGTGCTCCGGGAACGTGATCACCTGCAGCGA	334
Psammomys	CAACCCCTACACCCACTCATACTCGTACAAGTGCTCCGGGAATGAGATCATCTGTAGTGA	247
	*****	
Human	CAAAAACAAGAGTGTGAGGCCTTCATTTGCAACTGCGACCGCAACGCTGCCATCTGCTT	420
Mouse	CAAAAACAACAAATGCGAGGACTTCATCTGCAACTGTGACCGTGAGGCCGCCATCTGCTT	404
Rat	CAAAAACAACGACTGTGAGAGCTTCATCTGCAACTGTGACCGGCAGGCCGCCATCTGTTT	394
Psammomys	CAAAAACAAGGAATGCGAGGCNTTCATCTGCAACTGTGACCG-----	289
	*****	
Human	TTCAAAGCTCCATATAACAAGGCACACAAGAACCTGGACACCAAGAAGTATTGTCAGAG	480
Mouse	CTCCAAGGTCCCGTACAACAAGGAATACAAAACCTTGACACCGGGAAATTCTGTTAGCC	464
Rat	CTCCAAGGTCCCCTACAACAAGGAATACAAAGACCTTGACACCAAGAAACACTGTTAGGC	454
Psammomys	-----	
Human	TTGAATATCACCTCTCAAAGCATCACCTCTAT-----CTGCCTCATCTC-ACACTG	531
Mouse	TGTCACCTCACTTCCTGCCCACGCCGACCCCGCCACCTTGCTGTCTTATTTT-ACCCTG	523
Rat	TGTCACCCCACTTCCTGTCTATGCCGTCCCCGCTCCCTTGCTGTCTTATTTCTGCACCG	514
Psammomys	-----	
Human	TACTCTCCAATAAAGCACCTTGTTGAAAGAA	562
Mouse	CGCCCTCTAATAAAGTACCT-GCTGTCAGA-	552
Rat	CACCTCTAATAAAGTACCA-GCAGAAAG--	542
Psammomys	-----	

FIGURE 5A

Human	MKLLVLAVLLTVAAADSGISPRVWQFRMKIKCVIPGSDPFLEYNNYGCYCGLGGSGTPV	60
Mouse	MKLLLLAALLTAGAAHSISPRAVWQFRNMIKCTIPGSDPLKDYNNGCYCGLGGWGTPV	60
Rat	MKLLLLAALLTAGVTAHSISTRVWQFRNMIKCTIPGSDPLREYNNYGCYCGLGGSGTPV	60
Psammomys	MKLLLLAALLTAGVGAHSISTRVWQFGNMIKCAIPGSKPLKEYNNYGCYCGLGGAGTPV	60
	****:*.***... **.*:****:****.*: :***** ****	
Human	DELDKCCQTHDNCYDQAKKLDSCKFLLDNPYTHYTSYSCSGSAITCSSKNKECEAFICNC	120
Mouse	DDLDRCCQTHDHCYSQAKKLESCKFLLDNPYTNNTSYSCSGSEITCSAKNNKCEDFICNC	120
Rat	DDLDRCCQTHDHCYNQAKKLESCKFLLDNPYTNNTSYKCSGNVITCSDKNNDCESEFICNC	120
Psammomys	DELDRCQIHDNCYTKAKRLKSCKSLDNPYTHSYKCSGNEIICSDDKNKECEAFICNC	120
	*:***:*** **:*** :*:*.*** *:****:****.*: * ** **:.* ****	
Human	DRNAAICFSKAPYNKAHKNLDTKKYCQS	148
Mouse	DREAAICFSKVPYNKEYKNLDTGKFC--	146
Rat	DRQAAICFSKVPYNKEYKDLDTKKHC--	146
Psammomys	DRAAAICFSKAPYNKQDKNLNTKKNC--	146
	** *****.* **.*:*** *	

FIGURE 5B